

LESSOR Phillips Petroleum Company.

LESSOR Osage Tribe of Indians (Pawnee)

WELL NO. 5 SEC. 11

T. 27 R. 8 OSAGE COUNTY

6-4280

## FORMATION RECORD

From	To	Feet	Note each change in formation, i. e., sand, lime, shale, sandy shale, etc. Note character of each formation, i. e., color, hard, soft, caving, etc. Underreamed? Note contents of each formation, i. e., oil, gas, water, and kind of water—salty, etc.
Surface	0	10	Red rock
	10	20	Lime, light hard
	20	30	Shale, blue soft
	30	50	Lime, gray hard
	50	60	Shale, red soft
	60	80	Rock, red soft
	80	100	Lime, light hard
	100	120	Lime, light hard
	120	170	Shale, blue soft?
	170	175	Shale, blue soft?
	175	215	Lime, dark hard
	215	235	Lime, dark hard
	235	300	Shale, blue soft
	300	310	Lime, light hard
	310	315	Shale, blue soft
	315	325	Lime, light hard
	325	370	Shale, blue soft
	370	385	Shale, blue soft
	385	390	Sand, light soft
	390	435	Shale, blue soft
	435	460	Shale, blue soft
	460	470	Lime, gray hard
	470	550	Shale, blue soft
	550	560	Shale, blue soft
	560	585	Lime, light hard
	585	620	Shale, blue soft
	620	650	Shale, blue soft
	650	665	Lime, dark hard
	665	670	Shale, blue soft
	670	690	Lime, gray hard
	690	700	Shale, dark soft
	700	715	Lime, gray hard
	715	725	Shale, blue soft
	725	730	Lime, gray hard
	730	750	Lime, gray hard
	750	760	Shale, brown soft
	760	775	Shale, blue soft
	775	800	Sand, light soft
	800	820	Sand, light hard
	820	870	Shale, blue soft
	870	880	Sand, light hard
	880	895	Shale, blue soft
	895	905	Lime, light hard
	905	920	Shale, blue soft
	920	940	Lime and sand, light hard
	940	950	Lime, light hard
	950	960	Shale, blue soft
			10' T. - 30' e.g. 02619 water S. E. W. 15 D. W. 02619 02795 12.718 - water, 4 B. per hr. 200'